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<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560645H1

<400> 5250

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aaagtgtcta ttggaggaag aggccattaa ggtgggagga gccaaccaca gccatgccac 180

tcaagacctc ccatgattcc attgctgctg gtaactatcc tgagtggaaa ctgtttgttc 240

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<223> Clone ID: 700560646H1

<400> 5251

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aattaatatt ggatttgctt gtagtttact cagacaagga atgaaacaaa ttataattag 120

ctcagatact ccagaaacta aatcattgga gaaaatggag gacaagtctg ctgctgaagc 180

ggcaattaag tcaagtgttc ttcgtcaact aaggagtgca aaggcattgc tttctacagc 240

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<210> 5252

<211> 158

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560647H1

<400> 5252

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<210> 5253  
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<223> Clone ID: 700560649H1  
  
<400> 5253

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ggaaggacta ccaggaccct ccaccagcac cactcattga tgctgaggag ctcaaaaagt 180  
ggtcctttta cagggctctt attgctgagt tcattgccac ttgctcttc ctctacatta 240  
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<210> 5254  
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<212> nucleic acid  
<213> Glycine max  
  
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<400> 5254

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ctcaaatccc ttccattatc caatccacta ggtgcaagtc taccatttcc tccttgctcc 180  
tctccacttt ctccaacaac acctcctcca acaatgacac tcccaccacc ttcaatgcca 240  
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<223> Clone ID: 700560652H1  
  
<400> 5255

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 acagcagcag ncacctcgct cttcatgggg acgcgcctcc tggaggccca ctccggggcg 120  
 gggcgggtgc agggccggtt cgggtttggc aagaagaaan ccgccgcccc gaagaaagtt 180  
 tccagggggt cgggctctag ctccgatagg cncctgtggt atccgggcgc caaggcgcn 240  
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<210> 5256  
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 <213> Glycine max  
 <223> Clone ID: 700560653H1  
 <400> 5256

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 gcagaagaat ggatcaggag gttgttttct tagtggaagg aaattgaggg tgaaaaagga 180  
 gagagcagca attggaggac gatcgatggg cactacagtg tgcgcagttg ctgagcctga 240  
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<210> 5257  
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 <213> Glycine max  
 <223> Clone ID: 700560654H1  
 <400> 5257

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 tgtttcagac gaccagcaag acatcacaag agggaagggt ttggttgatt ccctcttcca 180  
 agtccacag gatactggaa ctactatgc aatcatgagc tcttatgagt acctagcact 240  
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<210> 5258  
 <211> 276

<212> nucleic acid  
 <213> Glycine max  
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 <400> 5258  
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 actcagagga aggttcagc ttctattcac aagatctttg cttttggntc tcttttact 180  
 cgccaccaat tganatcgca caactattat gatcaagatg atgcctctcc cagcccagaa 240  
 ggaaagacct tatnttactc attaatgcct gctttt 276

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 gggcttagca ctcganccgt ngcatcctcc gatgaaatcc aattncacat cgatcccggc 180  
 atcgacttcn acgacgaaat caccggtctt cgtggccaag ttaaaaaatt gnnaaatgtt 240  
 gctgaagaga taggttcaga agtcaagttt caaagagatt ttctggaaca agtgcaa 297

<210> 5260  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700560657H1  
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 tggagacncc aacattcatg ganttcccn ttggtgncnc naagacntg tttgccc aaa 120  
 caaacacaca tggnatga gcnttggtgt atcggggcta tcacaattgt ggactagtag 180  
 tcagaggcaa cactagctat ggaatactgt ccggagcnga aaaatataat gatgggatcg 240

caaccatcag ggagtattgt tgatcagatg tgggagtgtg caacgatg 288

<210> 5261

<211> 293

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560658H1

<400> 5261

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caacagggtc tctccggcag agcccggnaa gaggnccctc tattcggtga aaaatgttta 120

tttccaactt caagagtgtg ctgcgttggt caccaatata ancaatctca cccctcttcc 180

ctctctgata ttgatcaagt ccttcctccc ggtggcaatc actctntgcg tcgcaggaca 240

ttgatggggt tgagtgggtg ggcaacgttg gggntgagtt gagtgatgag caa 293

<210> 5262

<211> 294

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560660H1

<400> 5262

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atgggccaat cttgttctta ccaatttctt tctcaaaact cttgtctcta atttcagtct 120

tcagctttcc tttgctgcta ggagactcaa ccagctgggt caggaccagt cacagttact 180

ccattaccac aacggtcctc ttctatacgg caaaatcgcc gtgaactaat ctggtatggt 240

cattcaaacc atcccaaaag gccatcatca ccgatttcgt tacctcatgt catc 294

<210> 5263

<211> 292

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560661H1

<400> 5263

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ggcccctgga agaattatth gataaagtgn aaagaatgth agtatgggna accaaaatga 120  
 tgctatagac tgctaactgc naattatgaa gtggtgaaag agcgcntaat gcannnnncna 180  
 aaggcacaga agaagctgta actttggaca tcatagcacc aggttacatg gctgttggag 240  
 acttaaaatt tgctggatcc tgttgaacat ggtatcccc nttcccctct gt 292

<210> 5264

<211> 289

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560662H1

<400> 5264

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 cttggactga gactaggact ccctggaaat ggagccgcgc caacaactga agctgctgcg 180  
 gaattaggag tgaggaagag agggttctct gaaactgaaa ccgatgaaac aacctccgtt 240  
 gatttgatgc ttaacctctc tccaaggaa gcttctgctg ctgctacta 289

<210> 5265

<211> 299

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560663H1

<400> 5265

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 ccgtcgtttc cttcaggaag aagaagcctc tctctctcag agtgggtctca atgtcttccg 180  
 ttctctcttc ccaacccttc gaaatcgccg ttaaagcttc cgtcaccaca cccaacaggc 240  
 tcggcgactg ccctttttgc caaaggggtgc tgctgacact ggaggaaaaa catctacct 299

<210> 5266

<211> 280

<212> nucleic acid

<213> Glycine max



<223> Clone ID: 700560664H1

<400> 5266

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ttcgntgcta cnattttggn agcntngnaa tgnccangcn acganangnt ccctcnccgn 120  
atgnacannn ggnangngg ccgnaattcg gaagtgaat gcnnccangtg gaagnntgcn 180  
gtgggagcnc accacatctt ggcttgagac natctgaaga tggttgaaca acaaggata 240  
catcatggcg aacaatatag atcagatcca aaacagttaa 280

<210> 5267

<211> 297

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560665H1

<400> 5267

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caataattaa attaaatata tgctagcact ttaacagtac tcctttctct aatatctctc 120  
ctcatatctt cctttctgag gatattcagc taattaaact aagtcactaa gatgactgag 180  
ggaaagctag ttgaagctgc agaagctcat aagacacttc aggatttcga tcctccaaag 240  
aagcgcaaaa ggaacaagta tgcttttgcg tgtgctatgc tggcctccat gacttcc 297

<210> 5268

<211> 292

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560666H1

<400> 5268

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atctgagaac tcaactcatg aagcccttct tggcatccaa ggacgcggac gttcttcttc 180  
tcgtcagcag ctcaatgctg ttgagcgtgc tgttcaagtc ctggagcggg taggggggtg 240  
acctgatccg acaaaatcaa acttgatcga gggtcgctgg cagctaattt tc 292

<210> 5269  
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 cttctccga cgcaaaagct cctcaaatac gttcgtttcg gtttccggag angtcgcttg 180  
 tttcgtctgt tgttgtcaat gtaactcaac gacgctcctt ggtgaggcca ctcaacgccg 240  
 aaccgcaacg gaacgattct attgttcctc ttgcagcaat atcgttgctc ct 292

<210> 5270  
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 <212> nucleic acid  
 <213> Glycine max  
  
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 attgataata aaagagtaaa tattcgcccc cgataatttt gattttattg aattttnttn 120  
 ttatttttgc caattctatt nattctttct aataataaaa aatattctaa taactaataa 180  
 taaaaaggaa aataaagatt cattaganta ttatannata acaaataata gaacaaaaca 240  
 agattcttta gttatatatg taaaananaa atggtttatt tatnaganta ca 292

<210> 5271  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700560669H1  
  
 <400> 5271  
  
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 cagaattgag gcgttgccga ctttcatcat gtttaaggat ggagatcctt atgatcgctt 120

5272 5273 5274

tgagggagca ttgactgcag atcagctcat tgaacgcatt gaagctggcc tcaagggttaa 180  
gcaataaccc tactataatg aagacacaga agcttgctta ttggaatggt cgatcacata 240  
catgatatga ttgactggaa tcacttggtt tt 272

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<213> Glycine max  
  
<223> Clone ID: 700560671H1  
  
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ggaacgtcta cgacgctttt ggcaaagtgt gggatgtgga ggagatnttg actatcncag 120  
ataaaacctg gctggaagaa aggaacaaaa attaccttcc cagagaaagg taaccgtgag 180  
cctggtgtca tcccagcaga tctcattttt gtgatagatg agaagccgca tgctctttat 240  
agaagggatg gtaatgattt ggtgatcaac caagagataa cccttcttga gg 292

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ccgagatgtg aaaaccaaca atattcttct tgacagtgtac ttttgtgtca aagtggcaga 120  
ttttggactc tcgcgtcttt tcccagacca tgtcacccat gtttcaacag ctccacaagg 180  
gactccaggt tatgtggatc ccgagtacca ccagtgtac cagcttacta aacaaagcga 240  
cgtatatagc tttggagtgg ttctggttga gctgatatca tccttgctg ct 292

<210> 5274  
<211> 298  
<212> nucleic acid  
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<223> Clone ID: 700560673H1

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 aagttaaate acatgacgtt actgatattc ctccagacac aagaaagcag agggagccag 180  
 ggtctaagga taaagctgat cctgtaggaa agaaaaaggt ccataaaggc agcgtaaaat 240  
 tcgaaaatgc accctggaaa ttttagttct ggagaaatct aggaacatga ctagttac 298

<210> 5275  
 <211> 294  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700560676H1

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 aaacaatttt ttctcattgg atttggagggt gaagaaatct tctgtaaaac aagagtcagc 180  
 aggtgccttg gcggaggaac tgaagcgggt gagtgcagaa aacaagaagt taaccgaaat 240  
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<210> 5276  
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<223> Clone ID: 700560677H1

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 tctccacagt gcactttcct ctntctcgct ctaaataatt ctccatnnnn nnnnnnnnnn 180  
 nnnnnnnnnn aatacaatat tatatgtgtg tgtggaaaaa agaaccgtnt ttcttttcag 240  
 cgnaagcgcac cacctntata ttaccctttt gatcagagtt taaaatgggtg ttgt 294

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 <211> 294  
 <212> nucleic acid  
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 atttacctca gagtcggtga acgagggaca ccctgacaag ctctgcgacc aaatctccga 180  
 tgctgtcctc gacgcttgcc tcgagcagga ccagacagc aaagttgcct gcgaaacatg 240  
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 <212> nucleic acid  
 <213> Glycine max  
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 tcattggaac caggaccgag ctgcgagacg tgaagtccac gccgtttcag ccctacagcg 180  
 aggtgtttgg gctccagang ttccgtgagt gcgaactcat ccatggaaag tgggccatgc 240  
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<210> 5279  
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 ccaaccacct cactttctct cacaacgcac ccggcgaaact cgccctgtgc cgcacttcg 180

gtangagcgn nantttccac cgcgtcnagg gccatgtngc cctcccaacna ngtcgtntgg 240  
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<210> 5280

<211> 290

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560683H1

<400> 5280

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gcaccccttg gtgttgacac cagaatccat tgggaaaacg aagatgaagg ttggatcgga 180  
ggtaccaata ccaaacacca acaaaccac aaaccaata acatgttaca ggctgatgac 240  
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<210> 5281

<211> 289

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560684H1

<400> 5281

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aaaatggtga agatttgctg cattggtgct ggatatgtgg ggggtcctac tatggcagtc 120  
attgcactta agtgcccatc cattgaagtt gctgttggtg atatctctaa atcccgcat 180  
gcagcctgga acagtgaacca gcttcctatc tatgaacctg gccttgatgg tgttgtgaag 240  
caatgccgtg gcaagaacct cttcttcagc actgatgttg aaaagcatg 289

<210> 5282

<211> 287

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560685H1

<400> 5282

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 gtcacagtg ggcttcggcg agaaattagt tctgctgcaa ctggctcgtc aattcaagat 180  
 gttatacaga cagatgcagc aattaatcct ggtaacatgg gaggtcctcn ctaaganagt 240  
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<210> 5283

<211> 286

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560686H1

<400> 5283

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 agtttcaaag tcccttgcac ttgcgatatg gctgttctgt tcaagttaca cttgctctaa 180  
 tgttgaccat ttttctcatt gtcccttgt acttattcaa cttgagttaa acggctgctt 240  
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<210> 5284

<211> 289

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560687H1

<400> 5284

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 ctaccaaggt ggctcccgc gtcattgtcg gcggcggaag agtgggcagg gccttgacgg 180  
 acatgggcac cggccaagan ctccctcgtnc gncgaggaga gtccgtacca ctcaatttcg 240  
 agggcccat ttttngtgc acgaggaacg atgatcttga atctgtgtt 289

<210> 5285

<211> 287

<212> nucleic acid  
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 <223> Clone ID: 700560689H1  
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 accactggtc acctgattta caagcttgga ggcattgaca agcgtgttat tgagagggtt 180  
 gagaaggaag ctgctgagat gancaagang tctntcaagt atgcctnggt gctggacaaa 240  
 cttaaggctg ancgtgaaag anggatcacc attgatattg cttgtgg 287

<210> 5286  
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 <212> nucleic acid  
 <213> Glycine max  
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 anctgttnnga ngtanaaagg gtcacatgct ccccttcagg ctgatcttaa ngaactgggc 180  
 tcacaaagtg gtgttgatgt taccaaaatt gcaggattcg nccttgncac ttctgccttc 240  
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 ttccatgctg accctcatcc tggaaatatt gcagttgatg atgtcaatgg tggagantg 180  
 atctttatga ntttggaatg atgggaagta tcagtcnaan tatccgagaa ggttacttga 240



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286

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naccatctcc catctatgga aacctcgnaa ccattctcag catagatgna ggtngtataa 180  
ggggtatcat tccagctgta gttcttgacc acttcgaaaa ggctcttcag gcatgggata 240  
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<212> nucleic acid  
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<223> Clone ID: 700560694H1  
  
<400> 5289

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atgctgacga gctcgtcaaa accgcaaaa cagtggcctc accggggcgt ggtatttttg 240  
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 ctttaaggcgc agatatntgc ctttatagaa aaaggcaagg agatgagtaa ggcagaaagt 240  
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<210> 5291  
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 <212> nucleic acid  
 <213> Glycine max  
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 ttngaagcna gatcagaaaa ctggtgactt gntngaatac anaatgcagg gcagcacant 180  
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<210> 5292  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700560701H1  
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 ccaaaaatct ctctctctcg taattgtttc ggatgccctt gatttcttat ctcccagnt 180  
 accttaacaa aactcntcca gatttgga gggatcagc tgatggaata gtggatattt 240  
 actgggtttc cagataatca aaaggctaag gttgcagatg tttctaaatg ggaagagcgg 300  
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<210> 5293  
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<212> nucleic acid  
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 ttttttgatc ttgttagcttc ccaactcact cccaagacca atggatcaac tctgtgagg 240  
 ggagagacag tggccaagtt gaaggtggca atcaatggtt tcggacgcat tggtagaaat 300  
 tccttcgctg ctggcaggcc gaaaagat 328

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 gggcaccacc tccccactcc ccaccatggt ttcccaaata gttgaggatt tgaaggttct 180  
 ggaagaagat ttggatgccc acatgaattt tggaggcaat ggtggaaaat tacaggggaa 240  
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<210> 5295  
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 <212> nucleic acid  
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 <223> Clone ID: 700560706H1  
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ggcnanccat gctgctntac cccctgaagt ttactggaag tcggtgcttc ctactacgn 180  
aatgccaaaa gccatcactg atataccttta ctctgattng gtggaagaga nnagcagctc 240  
agtgcattntt gnagggtggag gcgtgaacgt gcatacagga aaaggangtg gcagtggcac 300  
cactgtcaac gttggtggna nag 323

<210> 5296  
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<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700560708H1  
<400> 5296

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gctcgtcata tttgggtgna gaggatgaca ctgatggcaa gcaagatgaa tcttcatcaa 180  
gtttcagaca gggagatggg gaggataata ttgttcctaa gagtttccct gtntgtgatg 240  
atcgtcattc agagttgatt cccgtgcttag atagacacct tatctatcaa atgaggatga 300  
agctggacct gtctgtg 317

<210> 5297  
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<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700560710H1  
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cagaactata tcntcctcat caaacatatt anactcgaa ctacatcant taaagtatca 180  
atggcagacc aaaatgagcc gagtgaggtt aatatgcaga ttgggatcat gagggagaaa 240  
cttaaagaaa cactgccagt ctcagttcaa gaattccttg gaaaaaagct gagcatatac 300  
tcctagacag actactt 317

<210> 5298  
 <211> 315  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700560711H1

<400> 5298

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 ttttgagccc aggaacaaca ccaagaccat ggatcgcaag aaccgcgga ggaagcccaa 180  
 gctcgancgc cgtaacgctc ttaaatactc ctctccgaa tacgacgtcn tctctcccc 240  
 ctccgacgac acgctctaca cgcgctccat gnggttctac gaccgcncga gttccgaatc 300  
 gagggcgtcg ngggc 315

<210> 5299  
 <211> 133  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700560712H1

<400> 5299

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 catgcgacgn tgg 133

<210> 5300  
 <211> 323  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700560720H1

<400> 5300

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 attcggatga tctctggttt gcgtataacc tgatagctcc cggagactct gtcattggccg 180  
 ttactgtcag gaaggttcta agagaagctg ctagtggcgg acgggaagca gaacgcgtca 240

agctcaaatt ggaaattaaa gtccaagagc ttgctgatta tgacaaagaa ggttctattt 300  
tacgtgttcg cggaagaac att 323

<210> 5301  
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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700560721H1  
  
<400> 5301

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aaggnnnnnnn nnnnnnnnnn nnnnnnnnnn ncaatgttgg gactgagaat tggggaactc 180  
acataatggg caccctgct gttccaagca gccaccaga taacaaaaaa gcagctttac 240  
aaagtggaca acctcaacca gttcaatact accatgacca acatcaacat ccctacgtgc 300  
aacatagccc agttgacaaa cc 322

<210> 5302  
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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700560724H1  
  
<400> 5302

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tcagtcacac gtgcaggggtt cacagttaga gcacagcaac aacaagtga tgggtgtgag 180  
gtacaaagta gccgtagggc agtgcttcac ttgttgctgc tggtttgacc actggctctt 240  
ttgttcaagc tgtgcttgct gatgccaaac ctatcanagt tggaccaact cncccaactt 300  
ctggcgncgn actg 314

<210> 5303  
<211> 315  
<212> nucleic acid  
<213> Glycine max



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<210> 5306  
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 <223> Clone ID: 700560728H1  
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 tccctctcca ttgggtctgt gttggacgtg aaaggcccat tgggccacat agagtacacc 180  
 ggaagaggca acttcttggt tcatggaaag caaagattcg caaagaggct agccatgttg 240  
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<210> 5307  
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 <223> Clone ID: 700560729H1  
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 gttcccggtt cccacacca aaactcccca ttctccaaat ttcactcccc aaagccccaa 240  
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<210> 5308  
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<212>      nucleic acid
<213>      Glycine max

<223>      Clone ID: 700560731H1

<400>      5308

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gctccctcac tccatctctg ccttagcnac cacactcaca ctctccnccc caataaccaa   180
accccataaa gtnaaccctt ttcccttttc ctggaaccga aattcacaat tggttaacgaa   240
acaaacgcga nccagaagca gaagnnacct ctncctaacc cctgcacgcg ttggggg       296


<210>      5309
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<212>      nucleic acid
<213>      Glycine max

<223>      Clone ID: 700560732H1

<400>      5309

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<210>      5310
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<223>      Clone ID: 700560733H1

<400>      5310

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gggcantccg ntgtgcnaga cgttgacaag gttcgctaca aagaggntgt cttcaatcat   180
gtnnaggaaa acgttntggg ccctntgtna tgaaacccta gtcgntgatt ccgtggtngn   240
acttggatcg tgccentttt gactctatgc gcgctaaaat tgnccgacgag ctncccangc   300
tcgacgaaag attggtgatg ncgaggtaaa nt                                   332

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<210> 5311  
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<223> Clone ID: 700560734H1

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 gcnggtgctg gnaatgcttg tcatggacgt atggtagagc gtatgg 166

<210> 5312  
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<223> Clone ID: 700560736H1

<400> 5312

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 ctgggccaaa ggtcactaca ccgaaggcgc tgagctcatt gactccgttc tcgacgncgt 180  
 tcgcaaagaa gccgagaatt gcgactgctt gcaagggttt caagtgtgcc atnctcttgg 240  
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<210> 5313  
 <211> 316  
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<223> Clone ID: 700560737H1

<400> 5313

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 gctcagagac ttgncaaggt ctatatcacg gtgcaattgg ctgattcaaa aaatgccaa 180  
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<212> nucleic acid  
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<223> Clone ID: 700560738H1

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agaaggatga tgatgtatat gaaatcaacc cagaagagtc ttttacagta cagaaatgag 240  
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anatagtctt tat 313

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<223> Clone ID: 700560740H1

<400> 5315

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cttcgcaagc nagagagcga aagtgctgct gacaaggcaa aattcaacaa tgtttttgtg 180  
aagaatctat cagaatcaac caccgatgat gagttgaaga acactttggc gaattggaac 240  
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<223> Clone ID: 700560742H1

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 gcgcagttgc tgagcctgac agacctctat ggttcccagg cagcaccct cctccatggc 240  
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<210> 5317

<211> 312

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560743H1

<400> 5317

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 agtgagaaca tgcgtctact atagttgcca ggnnnnnnnn nnnnnnnnn ngacgtctgc 180  
 ccttcttgct attaaaacca tgcntcccat tgctcgatac ttgggtgcat gattgctcca 240  
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<210> 5318

<211> 308

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560744H1

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 acaanngatt tggtccggaa gaccatggg ccagtgaaga aggtatgga agatgcagga 180

ttacagaaga gtcagattga tgagattggt cttgttggtg gaagcacaag gattccaaag 240  
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 gatgaagc 308

<210> 5319  
 <211> 303  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700560745H1  
 <400> 5319

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 aacggcgcca ttgtatttnt tcgtgctggt cagaataatt gcagagatga agaaagaaaa 180  
 cagtgttatg ctgaaagctg gggagctccc tggctcgattg actcgtgctc gagctgctgc 240  
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<210> 5320  
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 <223> Clone ID: 700560746H1  
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 cgttacaacg gtgatgctga ccatcatcag cgacgtaaaa agtttacatt tcctgctcgc 180  
 cttatatgtg gagattgtta tgaggttcgc ttggacaaaag ttcttgcaga tgatgctcct 240  
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<210> 5321  
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<212> nucleic acid  
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<223> Clone ID: 700560747H1

<400> 5321

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gagggaaatcc acactctctg acccctccaa ggcacaactc atccacaatt ttgaggcttt 180  
gggcgttaat ttggtccgcg gggatctgta cgatcatgag aagttggtga aagctatcaa 240  
gcaagtagat gtcgtcatat ccacgctggg tcacctgcag cttgccgatc agctcaagat 300  
catcgctgcc 310

<210> 5322  
<211> 311  
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<223> Clone ID: 700560748H1

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cagtattttg gactgcaaga agaacaagta cctctaatta tcattcaaca caatgacggg 180  
aancagtttt ttaaacccaa tttggaagct gatcacattc caacttggtt gaaggcgtag 240  
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ctgttaaagt g 311

<210> 5323  
<211> 307  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560757H1

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accttactag caatcttggt catactaata tttgccgtaa cccctttatg gtaccctttg 180  
 ttgagttact cttcacactt gaacatcaat aagaatattc catcatcatc ttcatacat 240  
 gatcaaaggc aagaagaaaa ttgccctcaa catatgtgga gaagtgtgac ntttcagtgg 300  
 ggagtgg 307

<210> 5324  
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 ctttcanaac aatggtgcng antgtctntt tgatgncttc tcatngttac ccttcctggc 180  
 cttgtcttgc ncccacaagt actgggcttn nctgcgcta tctgaagggc taccaaacat 240  
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 agtcc 305

<210> 5325  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700560760H1  
 <400> 5325

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 cnctogatgc ttcctttngc agccaactaa cggatggctg cttgtctgca acaactgtct 180  
 catgcccact gattgaatca ttgatattaa tgtcatgctc atcaattggt tcagagggtc 240  
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<210> 5326  
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<212> nucleic acid  
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<223> Clone ID: 700560762H1

<400> 5326

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gtcggcgaca cagtatttcg gagacaacaa tcctgcgtcg tcaaagccta agnctgggac 180  
atactggatt aaagatggga aagttggttg ggtcttcttg aagtggaaact cctgaagaga 240  
accaggctat tgctaaagtt gctaaggtcc agcctccggt tgcagatgta gatcacttgc 300  
t 301

<210> 5327  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560771H1

<400> 5327

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tcgccgcnnn nnnnnnnnnn nnnnnnttga ccataacctt tnanccattc gcaatgtcag 120  
angtttcgcc ctatcctcac acacaacttc tctcantctc aatctcccta cgcctaagta 180  
agtnaatgag aagattgnta tattcnnnct tgcagttata ctattggngn gacantggta 240  
aagaatgatg ggctctcatc tcttgcnag tgggcatgtt gtanatanag accttggttc 300  
atttgnaac 309

<210> 5328  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560773H1

<400> 5328

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<210> 5331  
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 <212> nucleic acid  
 <213> Glycine max  
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 tgactatnag gccaatgggg tgccctcctt ctgcctcttt caaggttgaa gccangaagg 180  
 gagngtgggt accggcttgg ctccccaacn tacctcaatg gnatcttctt ggtgacaatg 240  
 gattgaccct ctgggactag ctgaggaccc agagaattga gntggtacgt tcaagcc 297

<210> 5332  
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 <212> nucleic acid  
 <213> Glycine max  
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 gagcacggtg gtgccttaca ccaactctcca aacctcgatc tatgca 106

<210> 5333  
 <211> 106  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700560782H1  
 <400> 5333  
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 nctactnctg cntgtgcttt ctncancaa ccacagacca ccance 106

<210> 5334  
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 tcaagaccta cggtttggga ccttactcca caagcataaa aaaggccgga gnnggaaatc 180  
 aaagatatgg ccaagaaagt gaatgactat gtggtataaa ggagtctgat actggtttan 240  
 ctgcaccaag ccatgggacg ttgtttctga taagcaaag gtgccggagg agcaactctt 300  
 cagtggcaag 310

<210> 5335  
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 <212> nucleic acid  
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 <223> Clone ID: 700560787H1

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 taccagggct ttccttgntg gcaaggattt ggtgcaatcc cagggtatct tacagcagct 180  
 gtgcatccag aaagagtagc tgctgtcatn actttaggca tccttcatgc ttctgtgtcc 240  
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 gg 302

<210> 5336  
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 agctaaaaag gtcacatgct cccttcaggc tgatctaagg acttggtctca caagtgtgtt 180  
 gatgctacca aaattgcagg attcgccctt gccacctctg ccctcgttgt ctctggggca 240

agtgtgaag gtgtgcaaaa gaggctaacc tcgacgaaat ccagagnang a 291

<210> 5337  
<211> 301  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700560790H1  
  
<400> 5337

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agtcccanac tcgtttccat ctccagagcc agagacnaac cttatactct cgtgatccgt 120  
tcctctggcc acctttctaa taagctaaaa gtttcagccc tcaaaagcna cgaancaaag 180  
ccacagcagt tctcactgtg tcaaaacgga tggctccccg ctttccccca cgtnccttgtt 240  
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c 301

<210> 5338  
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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700560793H1  
  
<400> 5338

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tatnctaagg agtgtctcgc ctctcngcan tcatgtgccc aactgtacga cggaggacng 180  
nttncgtata tgccaccaan ccttcgccgc acgtgggcgt ggtgctntgc ctactgangg 240  
tggtagcctt ccaacttgca ctctanctgg tgggtggtctg ctgtcttcta agcttcttct 300  
t 301

<210> 5339  
<211> 298  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700560795H1

<400> 5339

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cntcgtttcg agcttcgatt acactctctg gcctttctac tgtgagtgcc ggtcgaagca 120

cgacacgcct tctnctgtnt ccanattcaa gagggngcng catgcactca aacaggagag 180

gattgatgtt gccattgctt ccaagtcgcc aactcccgac atcgcaacac gtatctngac 240

aatcagcat cgagncaatg tttgctgccg aggggaanatt ttacantgga aggacaaa 298

<210> 5340

<211> 302

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560801H1

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tcnnccagc agcagagtcn cngaattggg ttaaaatgaa ttggtggatg ctgcattccc 180

tcttcttaaa ggtgttggtg ctacaaccga tgtggttgag gcatgcactg gggccaatat 240

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ta 302

<210> 5341

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<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560802H1

<400> 5341

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gatagagatg atgaagatga tagaaggat tatggcanaa gaggaagagn tagagatgat 120

gaagatgata gaagggtntt acggcagaag aggaagagaa aatatgacan ggatanagat 180

agatatgaga ggcgcaggag agatgaacat gaagaagagc tgggcgtgga agggctnnng 240

ggatagagat ggtatangaa gggtttacag cacggttctg gtgaacttga attatatgcc 300

<210> 5342  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700560804H1  
  
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 tgtggagggtt tttccggcga acgatgacca cccctgcatg acgtggcggc cgggcagatg 180  
 ttcgtgaagg aggtgtacga ggttttgagg aagagttcgc agtgggagga gatggcgggtg 240  
 ctgattactt acgatgagca tgggtgggttt tatgatcatg tggcgacgcc ggtaga 296

<210> 5343  
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 <213> Glycine max  
  
 <223> Clone ID: 700560805H1  
  
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 gagtgggtga agggacaaac acttcgccaa cctttgctgc atcagttgtg agatgcaacc 180  
 ccaccacccc atcaggcctc accatcagag ctggttccta tgctgatgag ctcgtaaga 240  
 ccgcgaaaac agtggcttca ccaggagggtg gtattttggc catggatgag tccaatg 297

<210> 5344  
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 <212> nucleic acid  
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 caannntac nagcaggtat tggcanacag aaacaccctt tctagcattg cgatttgatc 120

tctccacctt ggtgaaagcc ntgtgaaaca taaggcttta cagaagggtg aattttgact 180  
 agaagggatg tttggctggt gagtttatgg aggggtcaagc tctttgttga atagtgtttg 240  
 tgttgccctta tctgcaattt taattgaacc aatcctaccc tttttatgaa catatgg 297

<210> 5345  
 <211> 298  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700560807H1  
 <400> 5345

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 ctgtatctaa gctttgtcca taacagaatt ggaaggccga tgtaaattcc tggtagacatac 180  
 gactancntc attgattaag attgcaagtt tgtgttggtc tcaagggtag catttgaatt 240  
 gagatattaa taataggatc ctgtttatcct gtgtacttaa ggtaatggtt aaggaact 298

<210> 5346  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700560808H1  
 <400> 5346

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 agaaaggctt ccacttctgc aatgctcanc ttggcgcttc ggtgtttcgc tattgctggt 120  
 tgccagcttc atttgtgctc ttctgttatg gcaacatctg aagtttcagg gaattcagt 180  
 gataccgatg ggaagcttgt aaatgaagag ccagcaaaaa caagccttca aggatatgat 240  
 gaagaagaaa aatttaaagg gcttttccaa aatctattcc 280

<210> 5347  
 <211> 300  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700560809H1

<400> 5347

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agttttacca tttggatcca tggaattgga gctagagaag agcaattcga ctgaagcatt 120  
caggtctatc ctggaaaaga tagaaacagc caagctgagg gtggtgaact tgatgttcta 180  
tgccatcaac tccaggaatt aatttcttcc ctgaagccat caaaagacat aattcaaagc 240  
attgggagaa tattcccaag caatgcacgt ttaattgttc gatccagtgc caatgttgag 300

<210> 5348

<211> 302

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560810H1

<400> 5348

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gggtcttgcc tatgatatct cagacgacca acaagaatca caagaggaaa gggtttggtt 180  
gactcccttt tccaagctcc acaggatgct ggaacnncac tatgcagtca tgagctccta 240  
cgagtnccctc agcactggac ttcgccagtn cttggacaac aaaatggatg gattctacat 300  
tg 302

<210> 5349

<211> 298

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560811H1

<400> 5349

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ggtgaagatt tgctgcattg gtgctggata tgtggggggg cctactatgg cagtcattgc 120  
acttaagtgc ccatccattg aagtcgctgt tgttgatatc ctaaattccc cattgcagcc 180  
tggaacagcg accagcttcc tatctatgaa cctggccttg atggtgttgt gaagcaatgc 240  
cgtggcaaga acctcttctt cagcactgat gttgaaaagc atgtctttga ggctgaca 298



<210> 5350  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700560812H1  
  
 <400> 5350  
  
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 ataacatnnc tacntatntc atntcgacac cgacacncca aacatacnac tcncaacgac 120  
 ctncacntc tccnatctta acctcccca accctactta ttctccctc catanccaan 180  
 cttcccnac ttgaattntc ntccattagc atnaccctaa ccctaactcg tcaaattccc 240  
 tcatccatcg ctaaactcac ccaactcct antaatatat caccacaca acatanatnt 300  
 a 301

<210> 5351  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700560813H1  
  
 <400> 5351  
  
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 ccaagtgagg aacaagcaag tggttctaag agattntgtc accggattcc cttaaagaatc 120  
 cgacacgaac attggtgaag gcacctaata ttgaagggtc cagaagggtc caatgatgtc 180  
 cttctaaaaa atctctactt gtcatgtgat ccatacatgc gactcctnat ggccaaggac 240  
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<210> 5352  
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 <213> Glycine max  
  
 <223> Clone ID: 700560814H1  
  
 <400> 5352  
  
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tgagccacct gatatccaga acagaganag ncacaataag gtagaaagta ttaattnctg 120  
 ttttgatca aatccttcaa ctgaaacgac ttcaaaacat catggacatg aaaggtaata 180  
 ttgatgatcc catgaattat ttctcatcgt tgaacttcga aggctgtaac tttggggcgt 240  
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<210> 5353  
 <211> 287  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700560815H1

<400> 5353

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 ggggaagagc aagggaatga gaattnatgc caagccacca gcattcctgg tgatagagtc 180  
 cctgacatgg gcaaaagaca gctcatgant ctgcttcttc ttggtgncat ttcanncccc 240  
 tctgctggna tgcttattcc ctacacctac ttttttgtcc ctccagt 287

<210> 5354  
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 <212> nucleic acid  
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<223> Clone ID: 700560817H1

<400> 5354

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 tttctcgag aattccagtt ccagtttcag gntcacngan ttgatggcta aagttggtaa 180  
 gttgcggana aggctcgagg tcacagggca agccacatc ttttgtcttg tggaagaaaa 240  
 aatctgaaaag atgttaatgt taggaagagc ttttctaaag cattggngaa gaaagatggg 300

<210> 5355  
 <211> 300  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700560818H1

<400> 5355

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agcgtgctaa ccatgatgtc aggagtgtt ctatatgacg cctctttgtt ccctttgctc 180  
geagattcac agggaaacct tctggaatca catgtttgca aagaatggga ataggcttca 240  
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<210> 5356

<211> 231

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560819H1

<400> 5356

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atcacactgc taaagtcttg gtctctgccc tggaatacc caaattgacc aaaatcccga 120  
ctctggactt cttcaacgcc ctactcctcc agaccactc gatgacgctc gtcaggctcg 180  
gagatcgta gattggaagg ctgcaaagac atatcaagat agtaaagtca t 231

<210> 5357

<211> 295

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560821H1

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ttttcatcct ccaattaatt agcaatgggg cacaatccct tttcactncc tcttctcttc 180  
ttaggttcaa ctctcttctt gtttctcca cccctcttc ttcttcacgc tccaacagcg 240  
tttctttccc cgccctctcc aggaacataa ggaaatcggt agaagataga aagat 295

<210> 5358  
 <211> 295  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700560822H1

<400> 5358

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 ccaaaggccg aaactttgaa gataacaaga gagcaatggc tatttgtgtt tctgggtcgc 180  
 acacactttt cgtgaaccgt tccaatttga agactgtggc ggttctgagc agagagaaga 240  
 agatgcgtgt gcaatacgat ctgaagcaag ggcagagtcg tatttccacg agctc 295

<210> 5359  
 <211> 296  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700560823H1

<400> 5359

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 ccgagaaatg cgatgtatat gggtttggtg tcttgtcttg gagatcgtca cagggaagag 180  
 gccagtcgaa tacatggagg atgatgtggt ggtactatgc gacatggtga gaggggcttg 240  
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<210> 5360  
 <211> 297  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700560824H1

<400> 5360

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 catcaagggc aagaggaaag atgatggtgg cattttttga gactaagaat tgctgataaa 180

gaaggtcgca tccgaaatat ttatttccca ttgacatag agctggacac ggcaataagt 240  
gtggcaactg aaatggttgc agagctggac atgactgac aggatgttac cagaata 297

<210> 5361  
<211> 287  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700560825H1  
  
<400> 5361

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nagaaaagaa ggctggccaa ttcaaactcag tttaggtgta tcagatccaa agattgggtg 180  
tcagatatct gaactcccta aaattcctgc caaagtaacg agtttgacag tgagcttctt 240  
cgtggtgtgc gcctccattt tgatagtcca gggattggaa aaggcac 287

<210> 5362  
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<212> nucleic acid  
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<223> Clone ID: 700560826H1  
  
<400> 5362

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gataagccag ctctaatacac atatccggat ttgnnttaaa ttatgtctcc tgctttcagg 180  
ggttattatt ttgtcccgag gcatattacc ttctgtctca caatttctgc atttatcata 240  
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<210> 5363  
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<212> nucleic acid  
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<223> Clone ID: 700560827H1  
  
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ttgggctggg acactaccgc cggaacccta atagcgcggt ccggcagtac ggagagatcg 180  
aggactgcaa ggccgtcacc gacaaggctc ccggcaagtc caagggctac ggcttcatcc 240  
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<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700560828H1  
<400> 5364

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tctggatgaa cttgaagtta caaaactatc atgaagatat agtccttcag ttatagctca 180  
cggattaata ccagattaga tatcacctta tcctatgtat gcttgtgttc tgtcttaata 240  
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<210> 5365  
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<213> Glycine max  
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cgccaagctc ggccccgcgc gcgtctcctt agcatatggc cccccactca gcgcacgcgc 180  
gacgcgctca tcactcgct catcgaaacc ctatcctccc cctcngtcct ctccaaacgt 240  
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<210> 5366  
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<212> nucleic acid  
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 aacagtggcg ttggtcatag agcatgganc tccttcgggc atcattgctg tgggcaagca 180  
 aagggtggcgt gttgaggcgc aggggtggcga tggagctgcg tctgtaccaa agtacttgaa 240  
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 <213> Glycine max  
 <223> Clone ID: 700560831H1  
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 tgttcattgc tgtgttgtct gaatatgtgt ngananaatt naggatncat cagattcntn 180  
 gggnttgtct gtnagctttc tcagcanaat cttgctacca atagttggna atncagctga 240  
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 cggnaccttc gacanggcgg aggaggcagc gcgtcctacg acgccgcagc acgagagttt 180  
 cgcggcccta aggccaaagac aaacttcctt ctccctttgg aaaatgttaa gaactcgagc 240

cccagccaga gcagcaccgt cgagtcctcc agccgcgacc gcgacgtcgc cgccgattc 299

<210> 5369

<211> 292

<212> nucleic acid

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caaccccccc gttactcaaa tcagaaactc tcatttgaag ctaacaaaca acaaagatca 120

acggatctat ctaccttcag tcatgggtgt tctttcaacc aacgcttctg ggtttcttct 180

tcgcttctcc tctcgcgggt cctctctgtt tctctctcac tcccactttc ctttctgaca 240

ccgttttoga ttctcaacca gcgcataccg gtcggaacct tcttcaggct aa 292

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<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560838H1

<400> 5370

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ncatcacagc gcttagttgt gagcaccaaa ccaaaccaca ttgtttgcaa ggcacaaaag 120

caggttgctc aagaggggtga ggacactact aacttgctctc tcgcagggtg gccctcactg 180

ttctcattgg tgctgctgct gttggctcta aggttgacc tgctgatgct gcctatggag 240

aagctgccaa tgtgtttgga aagccaaaga caaactga cttccttcca taca 294

<210> 5371

<211> 291

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560839H1

<400> 5371

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 tgggtgttga tagttctcaa gggaactcaa ttatcagttg gagatggtga agtatgtgna 180  
 gacggtgtac cctgagcttg atgtgattgg ggggaatgtt gtgactatgt accaggctga 240  
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<210> 5372  
 <211> 294  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700560840H1  
 <400> 5372

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 tggctcagaa acntactttt ganagggggg tcaacatggc acagttaaaa cctgtttgtc 180  
 anttgtgtng gaagccatat atgtctgac tgacgtatat ttgctgtgag acatgccgaa 240  
 attggtatca cgctgaagct gttgaacttg aagnntccaa aatttctagt gtgt 294

<210> 5373  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700560841H1  
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 ggggtctggac ctgggggttc agtccctagt tcancttctt tgggagcagc ttgaagaagg 180  
 ttattggctc aagggtcccc aacacaaaga tttcctctgg aagcttcaag attgttgctg 240  
 tagaagagaa gaaagagatt gaagagaccg agcagaccga caaggacaga tggaaggg 298

<210> 5374  
 <211> 294  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700560843H1

<400> 5374

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 caaggacggc gatggttgta ttactactaa ggacttgga ctgtgatgcg gtcactaggg 180  
 caaaacccaa ctgaggcaga actgcaggat atgattaatg aggttgatgc tgatggcaat 240  
 ggaaccatcg acttcccaga gttcctcaac ctgatggctc gcaagatgaa agac 294

<210> 5375

<211> 283

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560845H1

<400> 5375

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 caccgttatc agggatngct caatttgta gcnagtttgc ccagcctggc gatccagaat 120  
 atgctccacc tgtcccagaa acgagactcc tgcacaanaa agagcnagan tacacaagct 180  
 aaggctagag aaaggagctg caaaggctgc tgaggagctt gagaaatatg atccacataa 240  
 tgacccaanc tgtcgggaga tccatacaag acttgtngt ggc 283

<210> 5376

<211> 301

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560846H1

<400> 5376

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 gctcgaaatg ctacggcgcg atccgcttga aggagcagaa gnagcgtcga cgaaatctac 180  
 aatcganacc gcgctctctt cttcctcggt gaaaccgtcg ttctccacgt cacctccaac 240  
 gttggtggat gtcctcatcg aatcgccgcc gccgtctttg gcggagggtg cggtcacggg 300

<210> 5377  
<211> 278  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700560847H1  
  
<400> 5377

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gttcaggccg gagaccatcc tcgaaaccga atcgccggca ccggcatcaa attccggtgg 180  
ttccaacaat tttcccgttg atcaaagtac aggggattat gaaaattatg agaattacca 240  
atatgccacc gaccagtatg ctaattatta tggcaatt 278

<210> 5378  
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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700560848H1  
  
<400> 5378

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gctgcattcac aactttgtgg agacaagatt cacacgattc agtttcattc gcacaaaaaa 180  
tcggtcgcaa tctgttaatt gttacccta aagcagtttc tgattcccaa aactcccaa 240  
cctgtcttga tcccgatgct agcagaagtg tgcttggcat tataacttga ggtggtgct 299

<210> 5379  
<211> 295  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700560849H1  
  
<400> 5379

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cagtagcgct aaacgcccct ttatggaaga agacgacgac gaattctcca aaaagccacc 120  
 agcaaaaagg gttaggtttc caaagggaaa gaagtgaagc caggagatga agtgggtggtg 180  
 gacaaagcaa atgttgagga ggggtgaagaa gttgacttgg tgaatgctaa aactgctacc 240  
 aatgctgcc aagagcggga aaaactcaga aggtttctaa agggaaagaa atgaa 295

<210> 5380  
 <211> 290  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700560850H1  
 <400> 5380

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 acatgtatga agaatgaaga cggatcagag aatggggata tgtgcaagtt agacaaaaag 180  
 cccacttggt ctgggtggctt tacagaagtc catacagagt ggagaatccc tccaagcctt 240  
 ggccaatcat ctctggcttc agggaggacc aggtctttca ggagttgggt 290

<210> 5381  
 <211> 293  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700560856H1  
 <400> 5381

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 aaatgaaggg gactacactc atgagatctc aacattataa gcaacgcttc ctgcaccaca 180  
 aactgtcttg ctccctttgt gaagatcctg gatgcagagt ttggaattgt gaaggggaacc 240  
 atgacaacca cgcattccta cactggagac cagaggcttt tggatgcttc aca 293

<210> 5382  
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 <212> nucleic acid  
 <213> Glycine max

5382 5383 5384

<223> Clone ID: 700560857H1

<400> 5382

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tcatgcatat gctatatgca tatctcaaac gtgttttatt ttttcagaaa caggggtgaa 180  
tatttttgtt ttagcgtctg agctttgaat tacagagcaa agtgaagcgt gaacatgggtg 240  
atgcatctaa acgggacacc gtgcgctctc ggattccaca tgctcgcgga gt 292

<210> 5383

<211> 294

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560858H1

<400> 5383

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gttgtgactg atggcctcgg tgacgggttt tctgcctcac atgtcgntgc tgtaaggcac 180  
caccggtttg aagttggaat tggagttcgg gcggtgtcgt catctgaatc tgaaacagtg 240  
gcagctgtga acggatcttc ttgcggaat ggttccttgc tactgaagga ggaa 294

<210> 5384

<211> 292

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560859H1

<400> 5384

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gatgttgtct ccatgggaac tgggaagtaa ccatgggcaa tgatttgtgg tatggaccag 180  
acagagttaa atacttggga cccttctcag ctacagacccc ttcatacttg aaaggagaat 240  
tccttgggga ttatggatgg gacactgctg gcttatctgc tgaccagaa nc 292

<210> 5385  
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 <212> nucleic acid  
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<223> Clone ID: 700560862H1

<400> 5385

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 gcaactgaca caccactgg accccttnac tcancaanaa atcacnctcg tcaaaacccat 180  
 agtcctaaaa aagtacccca agaccagcna accgcgtctt cttccactac gtcggnctcg 240  
 ncgatcctga caaggccgcc gncctcaa at ggctctctcc ggngcccga cgcgngcaa 300

<210> 5386  
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<223> Clone ID: 700560863H1

<400> 5386

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 aacattgcct tttccctcag gtgcntctt ntnccaatc ctctatcggc taacttgta 180  
 gatccagtag atcctcttag tacttccatg gactttctc ctttttccct gatccactgg 240  
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<210> 5387  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700560864H1

<400> 5387

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gccgttaaac ccttaacggc acttccagcg cggggcggag gcagttgctg ttttttctga 180  
 cggcgacgac ggcgttgacg gcgagggag cggcgccgt ggcgcaggan attcccttgt 240  
 tcgggatacg gaagagtctg aagaaggtgg aggangaagc ggaggagatt 290

<210> 5388  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700560865H1

<400> 5388

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 aagagtgggtt cttccataga ttgaaagcgg acgcccatt cctatccccg gctcaggaat 180  
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<210> 5389  
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 <212> nucleic acid  
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<223> Clone ID: 700560867H1

<400> 5389

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 aagaacgttg cgaatctcga cggtgaactg actgtggagg agcggaattt actttctgtt 180  
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 aaaggaaga 249

<210> 5390  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700560873H1

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 aggcaccata atattgaagg ttccagaagt tccaatgatg tccttctaaa aaatctctac 180  
 ttgtcatgtg atccatacat gcgactcttc atggccaagg accgttcttt cggagatggc 240  
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<210> 5391  
 <211> 288  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700560874H1

<400> 5391  
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 atttggttgt gcagcatgac gtggatgtgg tgtgttgaag aaagtgggtg tggctgaggg 180  
 ancagegggt accgtcaaag gtgcaagatc cgtagtctt cggcaacctc ttgattccct 240  
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<210> 5392  
 <211> 261  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700560875H1

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 agatgtgtac aatgatcttg gagatcctga tagcagcgac gactcaagag acccgttctt 180  
 ggtggcaatc aacatccata cccaaggcgt tgnagaacag gaaggcctcg ttgcgacaaa 240  
 gatccttatt ggagaaaaga a 261



<210> 5393  
 <211> 294  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700560879H1

<400> 5393

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 tattgcagag gaggatgacg atgatttttg anattgtctt atttcaccct atgaattgct 180  
 atgaggatac cttcgtttcc aacctttgct catcttttcc ttttgaagaa tttccattat 240  
 tatttccttt tcaaaagggtg aatttttcat ttctaagtgg aagatctctg aaag 294

<210> 5394  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700560880H1

<400> 5394

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 cctctctctg tccgatgctc tggcgattcc cctccggctc tgtgggttcg gagttcgatc 180  
 cgaagggtgtt tcgtaagaac cttactcgga gtaagaatta taaccgcaaa ggatttgggt 240  
 acaaggaaga gaccctccaa tcatgaatcg cgagtacacc atgatatcat aag 293

<210> 5395  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700560881H1

<400> 5395

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 tcaaggatga aaatgagacg aaacatttga ggaaatggaa ggagcaaaga gtcgtctcca 180

ttnttttgna atggatcttc ttgacatcga ctccattgcc gctgccataa aagggttgct 240  
ccggcgtaat ccacctcgnc atgtcctaac atcatcggtc tggtcgaaga tcc 293

<210> 5396  
<211> 136  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700560884H1  
  
<400> 5396

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ccactactgt cgaggggaagg atagtgtaca agagttaaac ctcattacat tcgtaacatt 120  
atcgtaacaa caataa 136

<210> 5397  
<211> 287  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700560885H1  
  
<400> 5397

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tattnnaaaa ccacgaggna gccagccct gagcttttgc ttcctcacn ggtttngctc 180  
gatgacaccc tcttgnttat tggctgggga acatctgtcc naaattgctt caattagnac 240  
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<210> 5398  
<211> 289  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700560889H1  
  
<400> 5398

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cctcaagtcc atggctggct tccccacagg aagaccaaca atgacattac ctccattgct 180  
 agcaacggtg gaagagtgca atgcatgcag gtgtggccac cagttggcaa gaagaagttt 240  
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<210> 5399  
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 ccgaggagggc cgccgcagcc cccaagaaga cgacggaccc atccctgtcg ttacacact 180  
 cgacttgcac tgcgagggat gcgtcaagan gatcaaacgc acatgtcgcc attccaaggt 240  
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<210> 5400  
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 tgacactagg aaagtcgagt cacgaatcat ggatggaagc cccattggta attcttcaac 180  
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 ctctcacaag agactnttcc tctggttggtc attggaggaa catgacaaaa tgggtaatgg 180  
 gtcggttctg cttcaganac ccgattcggt tgggaggttt ggcaagtttg ganggaagta 240  
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 atgcctggaa ctggttgat caatcttctc attcaaatg atgttcgct tgaaatatgt 180  
 accgagaaga aaacgatttt gtcagttgaa gacatcattg ctttgattgg tgataagtgc 240  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700560903H1

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 atttgagaac tcaggtgaac ttggacccta catcggtgag tacggtgcag attacagaat 180  
 aataagcacc ttcaactctc cattccaagt tggtttctac aacaccacc ccaatgcctt 240  
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 <212> nucleic acid  
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 cattgcttct tcctcttacc agtatgaagg agcttacaag agtgacggca aaggactgag 180  
 caactgggat aactacactc acggaccagg tagaagtgtg ataatggatg gaagcaatgg 240  
 ggatatcgcg attgatcatt atcatcgcta cctggaggat atagat 286

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 <223> Clone ID: 700560906H1  
  
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 ccacccttcc attcgacgcc gccctttgat ntgcgcgttt acctcnaaac gacggacatg 180  
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 aatgcagatg attctatgca ggatgcagag aacagaaact 280

<210> 5406  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700560907H1  
  
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 gtgatcagag cnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nncaacgaat 180

gccgggataa gaggaattgg atgagttctg ttcagctctg gaataacaac actaccactg 240  
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<223> Clone ID: 700560908H1

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ctcgctccct cattcatgtc cgatctgtac gacggangac gggtagttgc gtaactgccg 180  
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<210> 5408  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560909H1

<400> 5408

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nngnntcnc naanatecta tntcgggggt aactnnagct tataacaaag atccaagtnc 180  
agttaagctc aacttgggag ttggtgctta ccgaactgag gaaggaaaac ctcttgtttt 240  
gaatgtag 248

<210> 5409  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560910H1

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 agagttgcag cttcatcatt cagaaggcat ctcaagggcc atggaggtaa cttgggatcc 180  
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<210> 5410  
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<223> Clone ID: 700560911H1

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 anggttgagg caattttgct taaatctaaa tcctctgaag aacttgggcg atacactgag 180  
 gctgcaaagg agtgcagaat tgttgtggat acagttgagt ctgctcttcc taatggaatg 240  
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<210> 5411  
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<223> Clone ID: 700560912H1

<400> 5411

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<210> 5412  
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<223> Clone ID: 700560913H1

<400> 5412

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 cccgccttct ttcggatccg gatcctcttc cgttgactct tccacaca 168

<210> 5413

<211> 292

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560914H1

<400> 5413

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 atttgaggaa tcagtcggac aggcattggt tgatctggnc aataccaaca atgagctgaa 180  
 aagtgatctg aaagatttat acataaactc agctgtccaa attgatgttt ctgggaaccg 240  
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<210> 5414

<211> 221

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560915H1

<400> 5414

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 acgtggtccc agacgcgccc ccgatgcctc cagctggcct ccgccctctc ctcccttggt 180  
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<210> 5415

<211> 184

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560916H1



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 cgggtcaaact tacggcacag accaattggg ataggagtac aggggtcttgt ctgataacttc 180  
 atac 184

<210> 5416  
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 tgtggagcat gctcgaactt gtgtacttga tacaacgagg cacgtgtact tcccttctaa 180  
 ttctcaagaa cctgggtgtgg tcttcaatgc tgtgggacaa gtgacaggac tgctttctga 240  
 atgcgattat gtcacagtag ataagctgac tgaaactgaa aaggcatt 288

<210> 5417  
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 ctttgaaacg agagtctgga tctaagggtcc gctatgctat tattcaggcg gcaaaggctg 180  
 ttgctgatgt agtccgaaca acattgggac ctaggtccat gctaaanatg cttcttgatg 240  
 ctcaaggagg aattgtgggt accaatgatg ggaatgct 278

<210> 5418  
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<212> nucleic acid  
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 <223> Clone ID: 700560919H1  
  
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 tancagtatt taccaatagt ggggagtcta gtagtgactc acttgatggt gctgaaattc 180  
 ttagaaanct aagtagtaag ttttaattttc cccatgaaaa aattggngaa gcaaggaaaa 240  
 ataagttttg tggtgctcgg atttcaaaga ctaagtctat aagtg 285

<210> 5419  
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 <223> Clone ID: 700560921H1  
  
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<210> 5420  
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 <213> Glycine max  
  
 <223> Clone ID: 700560922H1  
  
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 ttgtgatcaa gcaccgtctc gatgaagga tggctggtct cattgctgtg tccaacgctg 180  
 gggaagtggc ttatggtttc aattgcaatg gcatgtttag gggctgtgcc actgaaaatg 240

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284

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ttgctacccc aactntgact cngagaagat atttgggtgt gtgtggaggt ntgtgcacta 180  
ggtcattcgt cgttantctt ctaggggtga accngtgctn caaatctcnn natgagttng 240  
tgtggaacan gnagctaggg nattntggta gtat 274

<210> 5422  
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<213> Glycine max  
  
<223> Clone ID: 700560924H1  
  
<400> 5422

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attctcccga aactccggaa cctttcgccg ccgttgattt cccgccaaaa caagctcgcg 180  
gtcacagcca ttcaggtttc ggatctatcc gagaattncg acgattctgt cctcgaagac 240  
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<210> 5423  
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<213> Glycine max  
  
<223> Clone ID: 700560925H1  
  
<400> 5423

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664227-62560

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gataagccag ctctaatacac atatccggat ttggcttttaa attatgtctc ctgctttcag 180  
gggttattat tttgtcccga ggcataattac cttctgctcc acaattttctg catttatcat 240  
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<210> 5424  
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<212> nucleic acid  
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gcacccactt ttgtgaacgg taggaggctt ccttctgggt gcgtggtgca agatatgccc 180  
aatggttatt ccaaggtgac atgggtggag catgcagaat acgaagaaag ccaagttcac 240  
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<210> 5425  
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<212> nucleic acid  
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atggcacatt cagtttgtgg ttcgagaagg tccactgcac ttgtgatttc atccttgctt 180  
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<210> 5426  
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<223> Clone ID: 700560929H1

<400> 5426

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 cacatctcca acggaagaaa gaacagccan gaaatcagag aaaaaaaaaat gccacctttt 180  
 gccggatccg aaccagttgg attccctaag ccagattccg acatagtttc cattgacgtt 240  
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<210> 5427  
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<223> Clone ID: 700560931H1

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 ggcggagggc gcaccggagg agaattgctc cgccaagccc accaagcagg gcgagggcct 180  
 ccgccactac tattctcaca acatccacga ncatcagctc cttctccgtc aaaagacgca 240  
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<210> 5428  
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 <212> nucleic acid  
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<223> Clone ID: 700560933H1

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 aaagctggac ttcagaggtg tggcaagagt tgcagactaa gatggaccaa ttatctcagg 180  
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<210> 5429  
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<223> Clone ID: 700560934H1

<400> 5429

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 tctctggcct ccgaagctca tcaggcttcc ttcccttttc tagaaaatct tcagaggatt 180  
 tccattctgt cattgccttc cagacctatg cagttggaag cagtggagga tatcagaagg 240  
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<210> 5430  
 <211> 283  
 <212> nucleic acid  
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<223> Clone ID: 700560935H1

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 ggcctttcag gggttgaatc gatttctggt gacgttaagg acatgaaact agtcttattg 180  
 ggtgagattg atccagtga tgcaagtca aagctacgaa agtgggtgtca cactgaacta 240  
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<210> 5431  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700560938H1

<400> 5431

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aaatccaagt cctccatttc aatcacccac cctcaatttc ccggattact gcctatgaag 180  
 acaaagcntc cgagtttggg cagcctttgc attggagttc ttggaagaca tttggaggat 240  
 attattgcag atttgagtga aattgctatc aacttgccag ctg 283

<210> 5432  
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 <212> nucleic acid  
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 actacgccga tagtgatgga gagtgcctttt gcaagcncct ctgcgattac tgaccagagg 180  
 cagaagatag agcagtataa gcaaatactt gctgctgtca tttcatctaa tgacattggt 240  
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<210> 5433  
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 <212> nucleic acid  
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 <223> Clone ID: 700560940H1  
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 actcgagcag ttcggagcac gtggtttcgc ccgatgtcac gtgcgagagg gaggtgcaga 180  
 gcgaccccaa gtggaacgat gatctggacc taaagctaga aaacgcgttt gattttcagt 240  
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<210> 5434  
 <211> 284  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700560942H1

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 caaanatatg ccccnncact cttactgntt cgngaatttg agagagtgtg gttcacgccc 180  
 ctgcctgatc aatgccccca cgggagacgt ctacagctac cacgaggtgg acancaccgc 240  
 caganagggtg gcganggggc tgangnaaga gggcgtggaa cagc 284

<210> 5435  
 <211> 284  
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 ctccccctgc actggcaccg acaactccgg caccctggt agcaccacgc gctgaggttc 180  
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 <223> Clone ID: 700560946H1

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 atttgaggaa tcagtcggac aggcattgtt tgatctggnc aataccaaca atgagctgaa 180  
 aagtgatctg aaagatttat acataaactc agctgtccaa attgatgttt ctgggaaccg 240  
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 ccgtctcccc tgcgcttttc caaatTTTTT cagtccaaca tgagaatctt ggttactgga 180  
 ggagctggat tcattgggtc tcacttagtt gacagattga tggaaaatga aaaaaatgag 240  
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<210> 5438  
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 <213> Glycine max  
  
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 tcttggacca agatcactcc aatctccatt tggcttctcc agaaaagcct cctttcttgt 180  
 caaggcagct gctaccccc ctgtcagnca aggntcagac agaccttctgt ggtttgcatc 240  
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<210> 5439  
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 <213> Glycine max  
  
 <223> Clone ID: 700560949H1  
  
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 ctgctcccaa acaattgttc ggattcggag ttgtggcgat gctcgccact ctcatcttg 180

ctctctttat gcccgccgct gttcaggctc aatcngcatc ccctgcacct gcanctacta 240  
gcgacgggac ctcccttgat caagggatag catatgtgtt gatg 284

<210> 5440  
<211> 283  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700560950H1  
  
<400> 5440

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nnangaaaat ctttccaatg tgancttgtc tttgccaaga tgggaatcaa ccccatcatg 180  
atgagtgttg gagagttgga aantggaaat gcagganagc cagcaaaaact gntcaagcag 240  
agataccgtg aagctgcaga catgatcaag natggaaaga tgt 283

<210> 5441  
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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700560953H1  
  
<400> 5441

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cacctaagcc aagccactgc agctacctat accatttggg aagatttatg aatncgggaa 180  
ttgtgtaa at gttgtgtcat cattagttgt ttctgtaaaa gtcaataaaa tttctaagtc 240  
gtatataaga catatggtnt ttcaacgata na 272

<210> 5442  
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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700560957H1  
  
<400> 5442

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 tgagatgtta tttcaaggag aggatcttgt ttttgactgt gtcacagtcc ccgaatctgg 180  
 agcagctgan agcgaggatc tggggaacgt catgggcaac caaggtttga atggcantat 240  
 gcggntccac aaac 254

<210> 5443  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700560958H1  
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 gggatgcgtc aagaagatca aacgcacatg tcgccacttc caaggtgtgg aaaccgttaa 180  
 ggcagatcta tcgtcgaaca aagtgactgt taccggcaaa ttggatgccg agaagctgcg 240  
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<210> 5444  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700560959H1  
 <400> 5444

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 taagcncaaa gctaagggtcc gncgccacaa ccaccatcgt ctgnnnnnnnn nnnnnnnnnn 180  
 nnnnnnnnnn nnnngtgcct tccgacctga aggcttctc cgcgcgctg gnnctctct 240  
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<210> 5445  
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<212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700560961H1  
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 gacactagga aagtcgagt cagcncnt ggtatggaagc cccattggca attcttcnac 180  
 agtgcactcc tccnctgtgc ccacactaca ccgtngcaaa actaccggcc antcancaac 240  
 ntacgaagat cangatcatg atcatganca tgact 275

<210> 5446  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700560963H1  
 <400> 5446  
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 atccaaggaa aacaagcaag acaccgcacc cgatctctcc atttcttctg aatctaagag 180  
 ggggttaagt actccacacg taagcagaag aagtaggtgg tcttgatttc tctggcaaca 240  
 aggataagtc tactagtgtc aaaccaccaa gaaggctctc naatcctgtg a 291

<210> 5447  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700560967H1  
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 atccactcag atctctacnn cntcctcnaa cctntttctc ngcctccggn cccacagcca 180  
 cagcaancag actcctcctn ctctctcacc agcactgaaa cccaacctga gcctgtnggt 240

gacattgacg atgccacgga caatgtcacc gatgccg

277

<210> 5448

<211> 280

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560970H1

<400> 5448

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caattcagcc gttgagtgc acgaccgagg gcattcttta caccgaatct ngagtctccg 180

ttganctctc anacgttggtg aagaaccctc atcttcaaga gatcaacgaa cttttcccg 240

ntgatcccta caaccctgcn aggganacac tggaaggng 280

<210> 5449

<211> 279

<212> nucleic acid

<213> Glycine max

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gatcgactgt ggatcaagca acgaacattc caacatttga agaaattagc aactgatta 120

accctaacc tattggcaat ttaatgtaaa gaaaatcgca aaggctcgac ctttctgtta 180

tgtgggctat gctccgttg ctacgtaata tgaatactgc aaatgctggc acgtaattat 240

aatatcaaca gctggtactg ctttagtttc ataaacaaa 279

<210> 5450

<211> 285

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560973H1

<400> 5450

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gctgtttcca atncgtttcg accaaaaccc attaacccct tttgcagnaa agcaagattg 120  
 tgctctctgc aagggtcaac gagtgtgaaa agcagaaaaa gtttggtgct ttgtgctacc 180  
 aacatgacta tagcagagga tagtttggtg caggtggtgg aggaggaaga gggtcctcct 240  
 gattttgctt tgcttgatcc tgaggacant tctaggcctc gtaga 285

<210> 5451  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700560974H1  
 <400> 5451

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 cgtngttata cgggtccatgc cancgccnn ganatcaagg atgaaaatga gacgaaacat 180  
 ttggaggann tggaangagc aaagagtcgt ctccattttt ttgaaatgga tcttcttgac 240  
 atcgactcca ttgccgctgc nataaagggg tntccggc 279

<210> 5452  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700560975H1  
 <400> 5452

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 caccgccaca acaaccaccg canccattct tcttctgctg ccaaaatcnt aatcttcttc 180  
 tgctctctg cctttctcgg cctcgccatc atcgccaacc tcttcgcgc ctcctctcn 240  
 actcantatc tctcntggc accaactggg tgnccacaag 279

<210> 5453  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700560976H1

<400> 5453

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aggagccaaa cccttctggc cactgctatt ggaggcaaan nnnnnnnnnn nnnnnnnnnn 180  
nnnagtccta gaagactcat tgtggtagct gctgctgcac caaagaagtc atgggtccct 240  
ggtgtcagag gtggtggcaa cctcgtcgac 270

<210> 5454

<211> 291

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560979H1

<400> 5454

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agttcaaccc agtccaacca aacattatgc tccaaaaaga tgctagtatt tcacctcttg 180  
gggtgttaca actcaccaaa gttggcagca acggcggtgcc cacctcgga tctctcggtc 240  
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<210> 5455

<211> 121

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560980H1

<400> 5455

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a 121

<210> 5456

<211> 184

<212> nucleic acid  
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<223> Clone ID: 700560981H1

<400> 5456

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caaatgtatg tatgtacagt atcaagcctt gaaaatttac tttaaattggt agcacttctt 180  
ctcc 184

<210> 5457  
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<223> Clone ID: 700560982H1

<400> 5457

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cacgccgcgg gtgttactag cgctgcgtgg tttgatcgcc tcgcgatacg gcgttgtcca 180  
ggtcaacgcg gtggcgtctc tgggtcaacct ttctgctagag aagcagaaca aggtgaagat 240  
tgtttaggtca gggtttgttc cgttcttgat tgatgttt 278

<210> 5458  
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<223> Clone ID: 700560985H1

<400> 5458

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ccttctgttt cctttcttca cttcccaatt cantgaacac ccaaacccca atactcacgt 120  
gcttgccacg tgteccctga aattaccctt tttttcttct tcttcca 167

<210> 5459  
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<212> nucleic acid  
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<223> Clone ID: 700560987H1

<400> 5459

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ttcaaccag tccaaccaa cattatgcnc caaaaagatg ctagtatttc atcctctggg 180  
gtgttacaac tcaccaaagt tggcagcaac ggctgcccc cctcgggac tctcggctcg 240  
gccctttacg ctgccccaat ccagatttgg gacagcgat 279

<210> 5460  
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<213> Glycine max

<223> Clone ID: 700560988H1

<400> 5460

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accctaaac tattggcaat ttaatgtaa gaaaatcgca aaggctcgac ctttctgtta 180  
tgtgggctat gctccgttgg ctacgtaata tgaatactgc aaatgctggc acgtaattat 240  
aatatcaaca gctggtactg ctttagtttc ataaac 276

<210> 5461  
<211> 98  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560990H1

<400> 5461

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ctctgattct ttctttgctt agaattccac acaacata 98

<210> 5462  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560991H1

<400> 5462

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atggagatca ccaatgtcag tgagtatgag gctattgcaa agcagaagtt gccaaagatg 180  
gcgtttgact actacgcac tgggtgcagag gaccagtggg ctctgcaaga gaacagaaat 240  
gccttttcca gaattttggt tcggccagta ttcttattg 279

<210> 5463  
<211> 282  
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<213> Glycine max

<223> Clone ID: 700560993H1

<400> 5463

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gacctggata actgcacaaa acattctnnc nganaaactg atcacagagg actgtttcgc 180  
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caaaagctac tcaaaggatg accatcaagg gcatgtggca cc 282

<210> 5464  
<211> 285  
<212> nucleic acid  
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<223> Clone ID: 700560995H1

<400> 5464

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tctaaaattg gagtgattga gtcactttta gaaaaagttg acatccttct tcttggtgga 180  
ggaatgatct tcacatttta naaggcacia ggtctttcag tgggttcac cctttagtaa 240

gaagataagt tggatcttgc tacatcacta cttgcaaaag ccaag

285

<210> 5465  
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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700561001H1  
  
<400> 5465

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nagcagcaga accagagcca gtggttgata agcaaggga ccctttggag ccaggagtag 180  
ggtactacgt gtggccactt tgggctgatg aaggaggcct cacactaggc caaacaagga 240  
acaagacatg cctctttatg ttatccgtga cccttca 277

<210> 5466  
<211> 279  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700561003H1  
  
<400> 5466

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gttcgattcg gttcgttccc tcgcacttct cactcttgca tttgtgtgta gcgtcgcgaa 180  
ttcgatgcgg ttcgagcttc aatcgggtaa caccaagtgc atttcagaag acattaagac 240  
caacgcgatg agtgtgggaa agtacagtgt tgtaaatcc 279

<210> 5467  
<211> 278  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700561004H1  
  
<400> 5467

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 caacactttct gttttatcta caatgtacaa tgaaggccag caatacaact aaggcagtgt 180  
 cacgtaatcg aaactcgccc gcctctttgt ttggcaaaat ggcacaaggt ttacgttcat 240  
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<210> 5468

<211> 278

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700561005H1

<400> 5468

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 cgccgacgac gaggancctc agcttcctcg acgagccctc cgccgcgcgc gagcacgacc 180  
 accactacgg cgccgatgac tccaatttcg gnnactttga ggacttcgag gaggacgacg 240  
 cggaggcgta caagcagccc gaggtggacg agaaggac 278

<210> 5469

<211> 277

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700561006H1

<400> 5469

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 tcagtgcctg ctgcatgctc accatatttg cattgtttgc cacaaagacc gaggttccc 180  
 ttttgcaat gctgaagggt tcaccggatg tttatctgag tggccccatc cgaaagtaca 240  
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<210> 5470

<211> 277

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700561007H1

<400> 5470

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acattgcttc aaatggcaac tctagcagta gtggaactaa catggatggg gagaaaacct 180  
ttagcatttt gtttcgggga agaagaaatc gaaagcagac tctgagaatg ccaataagtt 240  
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<210> 5471

<211> 275

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700561008H1

<400> 5471

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accttcttgg tgttggtcga gaacaggctg ggcccatga catccttaca tgcgctgagc 180  
aggttccttt caacccatct tccaaacctg cttcatcatc ttaagattat tatatttatt 240  
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<210> 5472

<211> 274

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700561009H1

<400> 5472

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gaggtcattc aaatacgctt ggggtgcttga caagcttaag gctgagcgtg agagaggaat 180  
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tgctccagga catcgtgatt tcatcaagaa catg 274

<210> 5473  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700561011H1  
  
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 catgaggaag accgtcacca agcaggtctc ctcaggaagc ccatggtacg gcccagaccg 180  
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 <223> Clone ID: 700561012H1  
  
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 <223> Clone ID: 700561013H1  
  
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gcaacccatg ctgctttacc ccctgaagtt tactggaagt cgggtgcttcc tactacgcca 180  
 atgccaaaag ccatcactga taccctttac tctgattggg tggaagagaa aagcagctca 240  
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<210> 5476  
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 <223> Clone ID: 700561015H1  
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 ctggctatgg tgcccgact cccgaggtga aatgcgcaag ttggaggctt gctgtggaag 180  
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<210> 5477  
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 <223> Clone ID: 700561017H1  
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 tgaataaaat tgtataacaa agagtttggt tctcttatgt gaaaatgcgt agaggaggtg 180  
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<210> 5478  
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ggaccccatg atgtcagagt tagaatgaag gctgttgga tctgtgggag tgatgttcac 180  
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<223> Clone ID: 700561020H1

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ccacacagtt ggacatttgc cgagtttgag atagacaagg aaacccttga gaaaacacct 180  
gaatccaacg aggagtacac gtgtggcaac agtgggtgat ctaaacaacg tgggtgcctta 240  
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<210> 5480

<211> 277

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700561022H1

<400> 5480

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tgagatcac caatgtcagt gagtatgagg ctattgcaaa gcagaagttg ccaaagatgg 180  
cgtttgacta ctacgcatct ggtgcagagg accagtggac tctgcaagag aacagaaatg 240  
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<210> 5481

<211> 116



<212> nucleic acid  
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 <223> Clone ID: 700561023H1  
  
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 tgggtcccgt actccggagg tgaaatgctc aagttggagg cttgctgtgg aagcacacaa 180  
 catctttggc ttgagacca ttctgaaga gtgcgttgaa gcaacaaagg aatacatcca 240  
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<210> 5483  
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 <223> Clone ID: 700561025H1  
  
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 aaccccatca acctcagtgg tgccacaagg ccagctccat ctgcctctag cctgcctcc 180  
 ttcaagactg tggctctttt ctccaaaag aaggctgcac ctccaaaaa agctgcagct 240  
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<212> nucleic acid  
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<223> Clone ID: 700561026H1

<400> 5484

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tcgtcgctga tctctgtttc ctccgttact gtttctgatt gcagaggcga aaagggttttc 180  
cgcatcaaaa tcgaatnttg tttgctccat catcaccatg ggtagaatca cgaaactggg 240  
ttttcttctt ctacccagat aagtaaaagg gt 272

<210> 5485  
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<223> Clone ID: 700561027H1

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<223> Clone ID: 700561028H1

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cagttcccag ttcagccttc tttggcacca gcttgaagaa ggttattgcc tcaagggtcc 180  
ctaacgtcaa gatttcttct ggaagtttca naatcgttgc cgcggaaaaa gagattgatg 240  
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 agtcttggaac caagatcact ccaatctccn aatttggtt ctccagaaaa gcctcctttc 180  
 ttgttaaggc agctgctacc cccctgtca agcaaggatc agacagacct ttgtggtttg 240  
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 <223> Clone ID: 700561032H1  
  
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 <223> Clone ID: 700561035H1  
  
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<223> Clone ID: 700561039H1

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ncttttggtta aaggccaatt gnntntt 87

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<211> 274

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700561040H1

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ggtgccacaa ggccagctcc atctgcctct agccctgect ccttcaagac tgtggctctt 180

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<210> 5492

<211> 251

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700561041H1

<400> 5492

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tggacaaggc caaggtggct gacgctgccg gcgatcttct cgacgcggcg gggaagtatg 180

gaaaacttga tgacaaacaa ggcatagggc aatatgttga caaggctgct gattatctgc 240

ataattacca g 251

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<212> nucleic acid

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<223> Clone ID: 700561042H1

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cnacgancna aaacgtgatg ccacnc 86

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<213> Glycine max

<223> Clone ID: 700561043H1

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ggcctttcag ggggtgaatc gatttctggt gacgttaagg acatgaaact agtcttattg 180

ggtgagattg atccagtga gtcagtgtca aagctacgaa agtgggtgtca cactgaacta 240

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<213> Glycine max

<223> Clone ID: 700561045H1

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gacatgtcaa taatatcaca tgacaacgct catgcggata gggccacgag gcgcac 176

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<213> Glycine max

<223> Clone ID: 700561046H1

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 tctctccgct tcgcttcatg ggttttcgtc ctcgacnctc ctctcactct ctcacctcct 240  
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 gttgggggtgg aggagaagga agggctgcaa caataaccgc cgaaaagggtg gcaaattccat 180  
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ggttgttccc gatacacgga aaggacttgt tcgaattgct aggggtgagg agggattagt 180  
acattttcag tggcttgatc gcacacaaaa tgttgttgaa gatgatcaga taatatttcc 240  
caatgaggct atttttgaga aggttaatca aa 272

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gccggagaag caaaggttgc tccggcgggg tttttcgaga agtatccggc tcttggtgac 180

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gaaattttgt taactttggt gttgaaattt tattctaataa aat 163

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<223> Clone ID: 700561063H1

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cccatggtac ggcccagacc gagtcaagta cttgggccc a ttctctggcg agcccccgtc 240  
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<223> Clone ID: 700561089H1

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